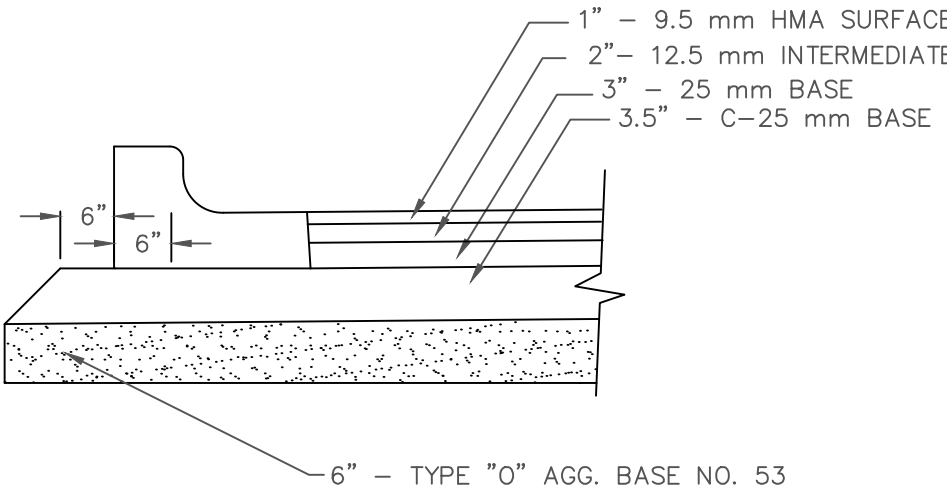
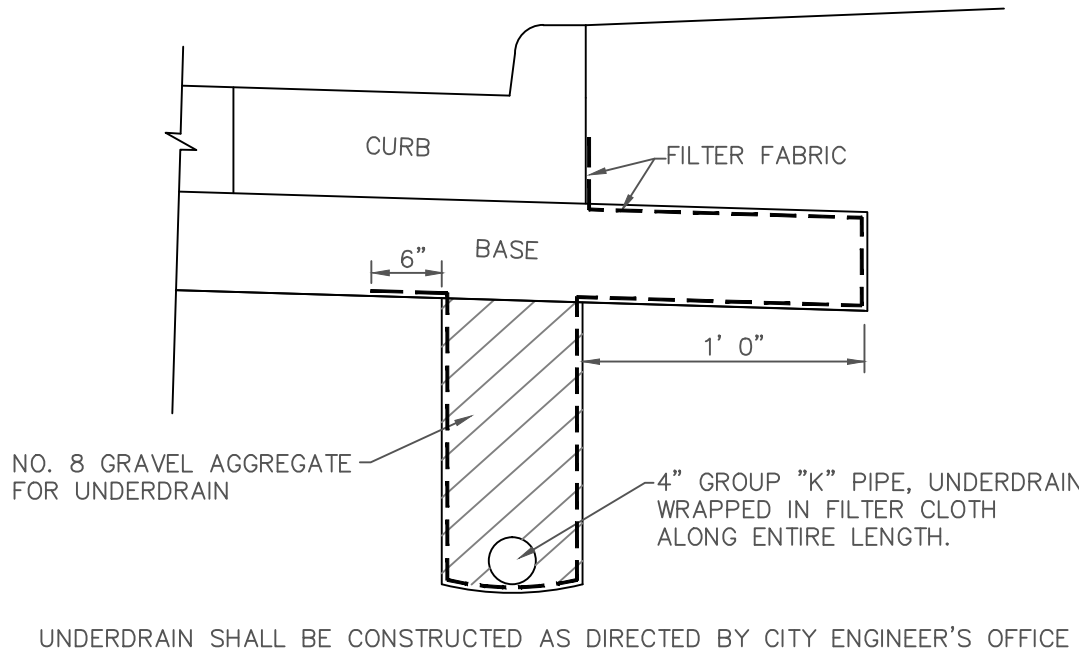


PAVEMENT CONSTRUCTION NOTES

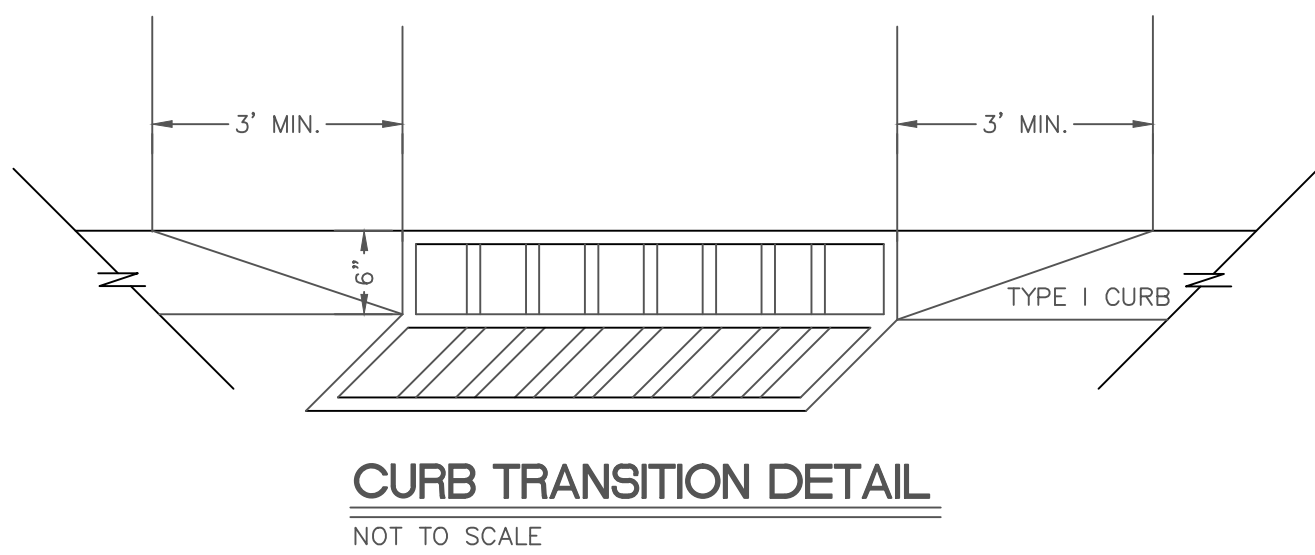
1. INSTALLATION OF OR PROVISIONS FOR THE INSTALLATION OF ALL UNDERGROUND UTILITIES, INCLUDING SERVICE LATERALS, TO BE PLACED UNDER THE PAVEMENTS SHALL BE ESTABLISHED PRIOR TO THE CONSTRUCTION OF THE PAVEMENTS.
2. ALL PAVEMENT, CURBS, SIDEWALKS, RAMPS, ETC. SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SPECIFICATIONS AND IN CLOSE CONFORMANCE WITH THE LINES, GRADES, THICKNESSES AND TYPICAL CROSS SECTIONS SHOWN ON THE PLANS. MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH DESIGNATED SECTIONS OF THE INDIANA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS", LATEST EDITION.
3. SUBBASE AND SUB GRADE FILL MATERIAL SHALL BE COMPACTED TO A MINIMUM 95% OF THE MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D698.
4. ALL PORTLAND CEMENT CONCRETE PAVEMENT STREETS SHALL HAVE JOINT MAINTENANCE CONDUCTED BEFORE THE CITY ACCEPTS OWNERSHIP OF STREET (I.E. CRACK SEAL OR OTHER APPROVED MEASURE) WITHIN THE MAINTENANCE PERIOD.
5. WHEREVER RIGID PAVEMENT IS TO BE USED THE CONTRACTOR SHALL SUBMIT A DETAILED PAVING PLAN TO THE CITY ENGINEER. THE PAVING PLAN SHALL SHOW THE LOCATION AND TYPE OF JOINTING TO BE USED IN THE CONSTRUCTION. THE LOCATION AND TYPE OF JOINTING SHALL BE IN ACCORDANCE WITH THE CITY STANDARDS AND GUIDELINES.
6. WHENEVER SUB GRADE STABILIZATION IS TO BE USED THE CONTRACTOR SHALL SUBMIT A WRITTEN PLAN DETAILING THE APPLICATION METHOD. THE PLAN MUST COMPLY WITH THE STATE OF INDIANA ENVIRONMENTAL REGULATIONS AND STANDARDS AND BE APPROVED BY THE CITY ENGINEER'S OFFICE.
7. RECYCLED CONCRETE MAY BE USED AS # 53 AGG. BASE ON A CASE BY CASE BASIS UPON PRIOR WRITTEN APPROVAL OF THE CITY.
8. WHEREVER PROPRIETARY EQUIPMENT IS SPECIFIED, "OR APPROVED EQUAL" IS IMPLIED. ALL PROPOSALS FOR SUBSTITUTION SHALL BE SUBMITTED TO THE CITY IN WRITING FOR THEIR APPROVAL.



(INTERSECTION OF LOCAL, PLACE OR COLLECTOR WITH ARTERIAL)
ARTERIAL APPROACH PAVEMENT SECTION
NOT TO SCALE



UNDERDRAIN DETAIL
NOT TO SCALE

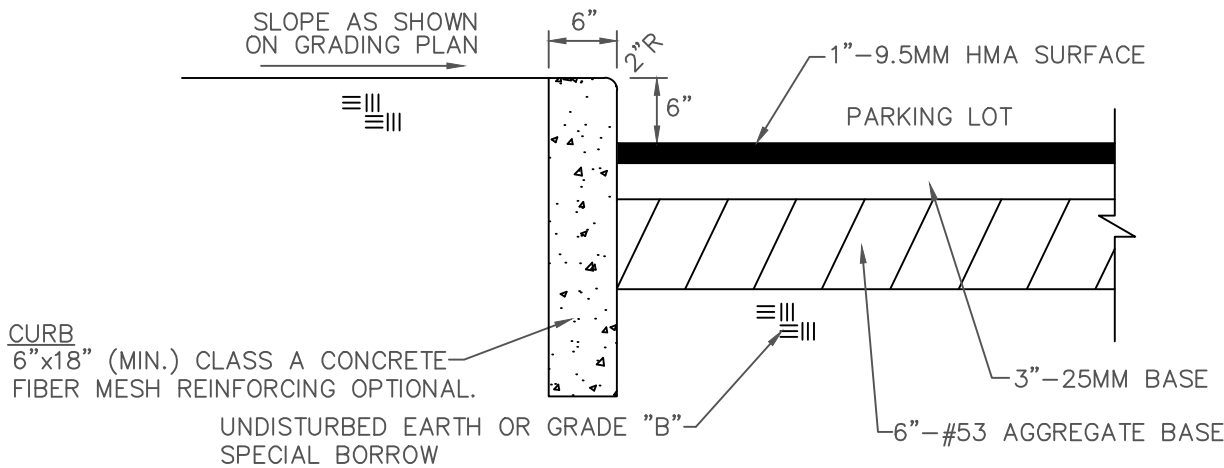


CURB TRANSITION DETAIL
NOT TO SCALE

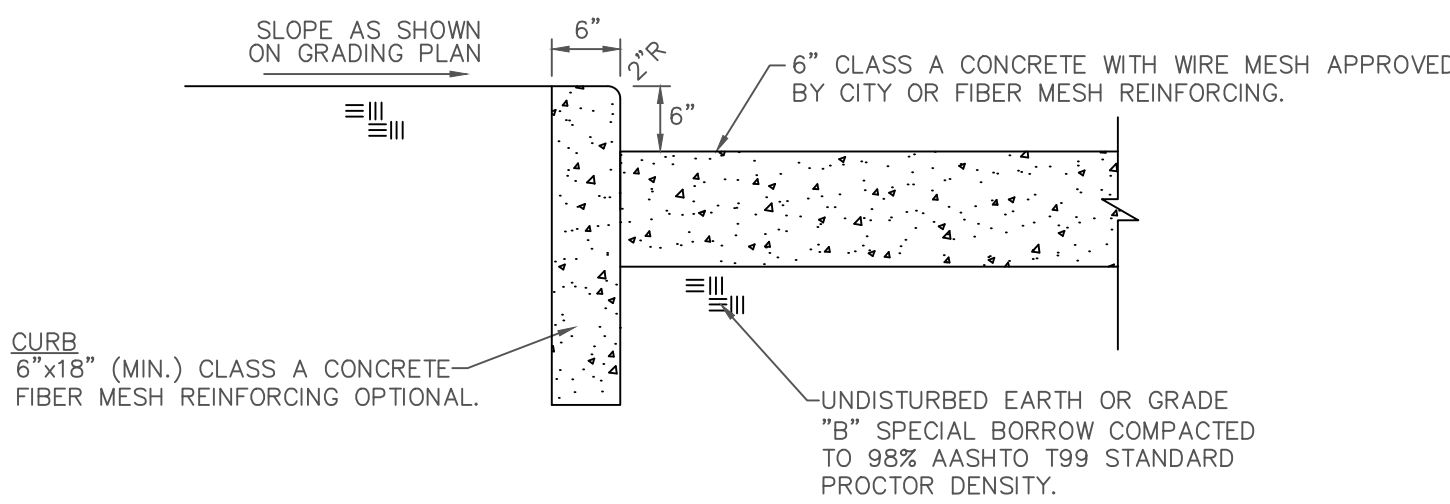
QUALITY CONTROL REQUIREMENTS

1. ALL TESTING SHALL BE IN ACCORDANCE WITH THE LATEST INDOT STANDARD SPECIFICATIONS. ALL TESTS WHERE PRACTICABLE SHALL BE WITNESSED BY THE CITY. CONTRACTOR SHALL COORDINATE TESTING SCHEDULE WITH THE CITY ENGINEER'S OFFICE. ALL TEST RESULTS SHALL BE SUBMITTED TO THE CITY ENGINEER'S OFFICE WITHIN 48 HOURS OF THE COMPLETION OF EACH TEST AND PRIOR TO PLACING ANY MATERIAL ON THE SUBBASE/SUBGRADE. THE FREQUENCY OF TESTING WHERE SHOWN IS A MINIMUM. ADDITIONAL TESTING MAY BE REQUIRED AT THE DIRECTION OF THE PUBLIC WORKS INSPECTOR.
2. THE DEVELOPER/CONTRACTOR SHALL RETAIN AN INDEPENDENT TESTING FIRM (UNLESS OTHERWISE NOTED) TO PERFORM THE FOLLOWING TESTING:
 - A. SUBGRADE:
 1. COMPACTION (FILL SECTIONS): 1 TEST PER LIFT PER 500 LF OF SINGLE LANE WIDTH.
 2. ADEQUACY OF SUBGRADES SHALL BE DETERMINED SOLELY BY THE PUBLIC WORKS INSPECTOR. A PROOFROLL SHALL BE PERFORMED ON ALL STREET SUB GRADE PRIOR TO PLACING STONE AND INSTALLING CURB. SUBGRADE SHALL MEET INDOT SPECIFICATION SECTION 207, EXCEPT THAT ONLY THE TOP 6" OF SUBGRADE SHALL BE TESTED FOR 100% STANDARD COMPACTION. PROOFROLLING THAT COMPLIES WITH INDOT SPECIFICATION 203.26 IS ALSO REQUIRED, EXCEPT THAT PROOFROLLING MAY ALSO BE ACCOMPLISHED USING A FULLY LOADED TANDEM OR TRI-AXLE DUMP TRUCK IN LIEU OF THE SPECIFIED RUBBER TIRE ROLLER. ROLLER MARKS LESS THAN 1/2" ARE ACCEPTABLE, AS ARE DEFLECTIONS LESS THAN 1/2" OVER THE LENGTH OF THE ROLLER OR TRUCK. IF THE SUBGRADE DOES NOT PASS THESE SPECIFICATIONS, THEN SUBGRADE TREATMENTS, INCLUDING CHEMICAL MODIFICATION PERFORMED ACCORDING TO INDOT SPECIFICATIONS 207 AND 215 MAY BE DONE IN LIEU OF THE ABOVE DENSITY AND PROOFROLL SPECIFICATIONS.

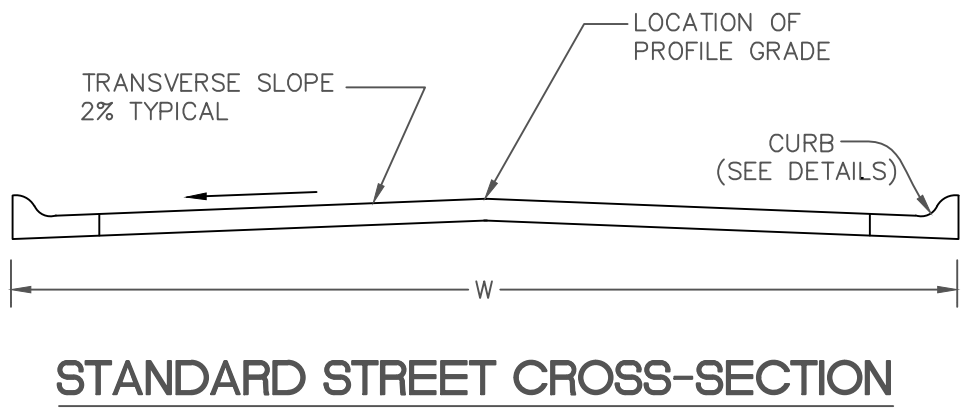
TANDEM DUMP TRUCK – GROSS WEIGHT 48,000 #
TRI-AXLE DUMP TRUCK – GROSS WEIGHT 68,000 #
 - B. AGGREGATE SUBBASE:
 1. GRADUATION – 1 TEST PER 1000 TONS OR 1 PER WEEK
 2. COMPACTION – 1 TEST PER 500 LF OF SINGLE LANE WIDTH
 - C. BITUMINOUS MATERIAL (BASE, INTERMEDIATE AND SURFACE):
 1. ASPHALT EXTRACTION – 1 TEST PER EACH TYPE OF MATERIAL USED PER JOB TEST TO INCLUDE GRADATION, ASPHALT CONTENT, CRUSHED PARTICLE DETERMINATION AND DELETERIOUS DETERMINATION. TEST SHALL BE CERTIFIED PER INDOT CERTIFICATION REQUIREMENTS.
 2. DENSITY – THE TARGET DENSITY SHALL BE DETERMINED FROM A TEST STRIP CONSTRUCTED PER INDOT SPECIFICATIONS. THE TARGET DENSITY SHALL NOT BE LESS THAN 98% OF THE UNIT WEIGHT AT THE OPTIMUM BINDER CONTENT NDES AS DETERMINED BY THE MIX DESIGN. THE DENSITY OF EACH SUBLOT WILL BE THE AVERAGE OF FIVE TESTS. A SUBLOT SHALL BE 1000 LF OF SINGLE LANE WIDTH. BREAKDOWN ROLLER SHALL BE MINIMUM 10 TON OR APPROVED VIBRATORY.
 - D. CONCRETE FOR CURBING AND DRIVEWAYS:
 1. AIR AND SLUMP – 1 TEST PER DAY FOR POURS OVER 20 CY OR MINIMUM 1 PER WEEK.
 2. COMPRESSIVE STRENGTH TESTS – AN ADEQUATE NUMBER OF CONCRETE TEST CYLINDERS SHOULD BE TAKEN TO ENSURE THAT PSI REQUIREMENTS OF THE CONCRETE SECTION ARE MET. A MINIMUM OF ONE SET OF TEST CYLINDERS PER WEEK SHALL PASS THESE REQUIREMENTS.
 3. CONCRETE STRENGTH SHALL BE A MINIMUM 4000 PSI BEFORE OPEN TO TRAFFIC.
 - E. CONCRETE FOR PAVEMENT – FREQUENCY OF TESTS SHALL BE IN ACCORDANCE WITH THE INDOT FREQUENCY TESTING MANUAL AS SET OUT IN THE SECTION TITLED "CONCRETE PAVEMENT AND STRUCTURE MATERIAL".



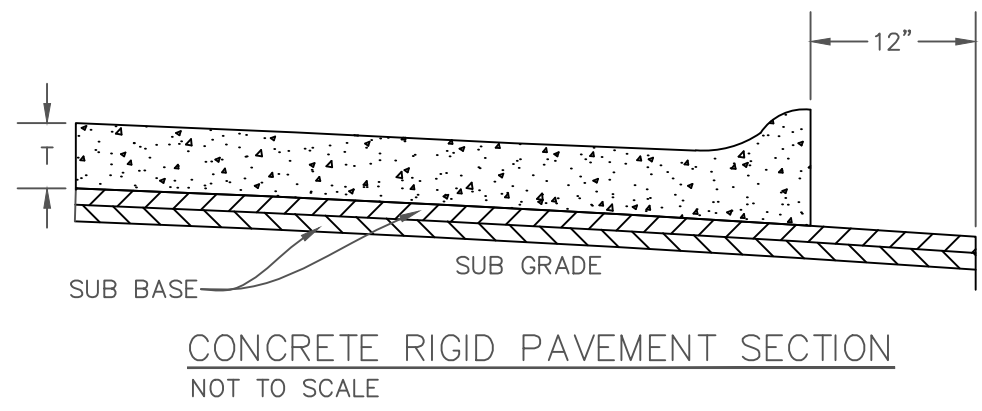
TYPICAL PARKING LOT AND CURB SECTION - ASPHALT
NOT TO SCALE



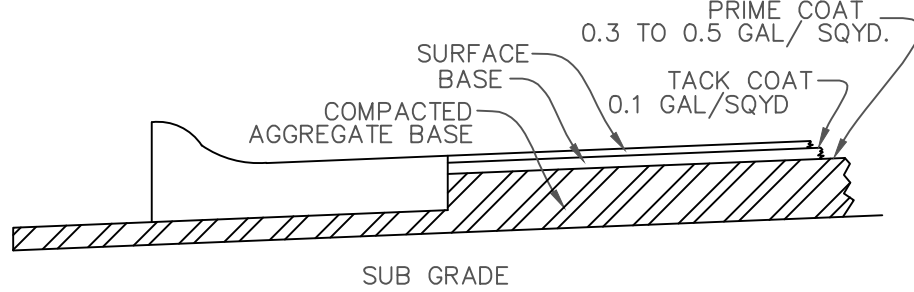
TYPICAL PARKING LOT AND CURB SECTION - CONCRETE
NOT TO SCALE



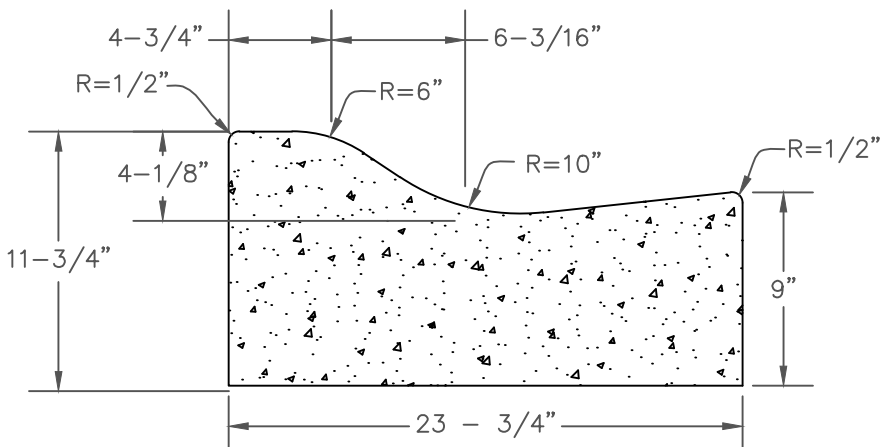
STANDARD STREET CROSS-SECTION
NOT TO SCALE
STREET C&W: 11/24/14



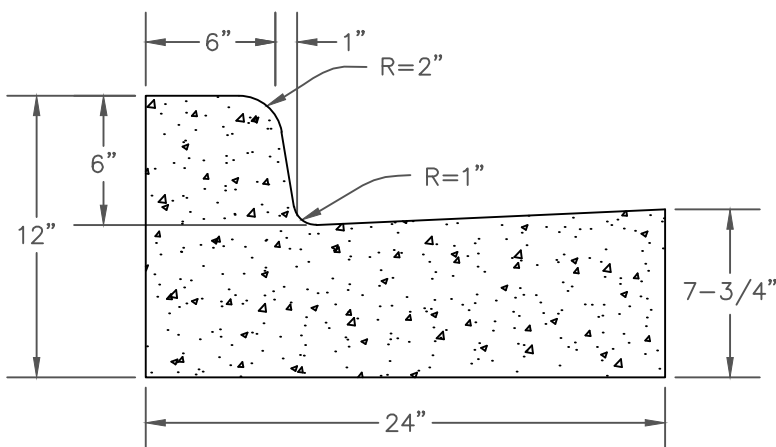
CONCRETE RIGID PAVEMENT SECTION
NOT TO SCALE



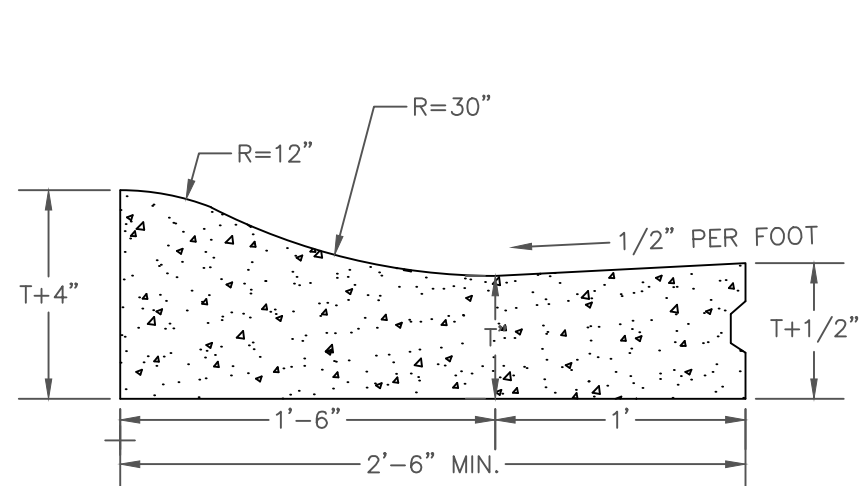
ASPHALT PAVEMENT SECTION
NOT TO SCALE
BASE TO BE CONSTRUCTED PRIOR TO CONSTRUCTION OF CURB AND GUTTER



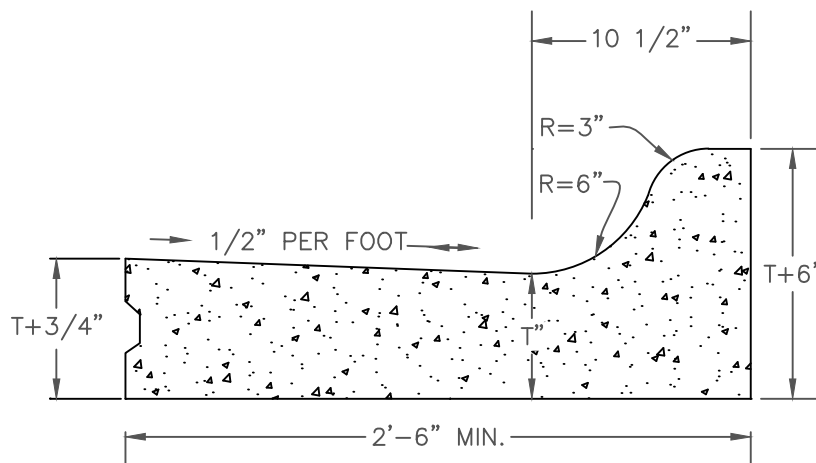
2' ROLL CURB AND GUTTER



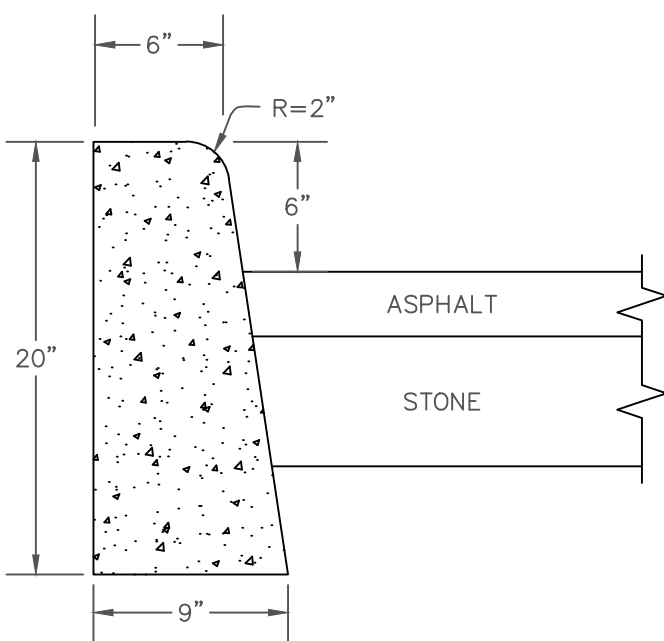
2' CONCRETE CURB AND GUTTER



**INTEGRAL CONCRETE CURB
TYPE I**



**INTEGRAL CONCRETE CURB
TYPE II**



CONCRETE VERTICAL CURB

CURB SECTIONS
NOT TO SCALE



REVISIONS	DATE	BY

DWN BY:	AJB
DATE:	12/23/2014
SCALE:	N.T.S.

CITY OF COLUMBUS
OFFICE OF CITY ENGINEER
123 WASHINGTON STREET
COLUMBUS, INDIANA 47201

SHEET TITLE:

PAVEMENT AND CURB
TYPICAL SECTIONS AND NOTES

CERT.

FILE:

SHEET:

JOB No.

OF:

DRG. No.